

Morgan Olson Operator & Service Manual for Keyless Entry Controller Diagnostics PN 46029037



MORGAN COLSON®

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Operation Guide - P1550 Series Remote Control

Morgan Olson - 46029037

Cab Keyless Unlock

Curbside Door Unlock

Press and release the fob button OR dash switch. The curbside door unlocks for 6-seconds.

Cargo Keyless Unlock

Bulkhead, Driver and / or Rear Door Unlock

Press fob button TWICE within 3-seconds.

The bulkhead, driver or Rear door will unlock for 10-seconds. Door automatically relocks.



Transmitters / Keyfobs

LED	Operation	Status
Green LED	Flashes once every 5-seconds	System ON
	ON solid 6-seconds	Curbside door unlocked (Cab Area)
	Flashes once per second for 10-seconds	Bulkhead, Driver and / or Rear door unlocked (Cargo Area)
Red LED	ON solid	Unlock request from unlock switch or fob

Status LED on receiver located over driver door.

Keyfob Replacement & Code Management

Code Enrollment Option 1

- 1. Unplug 10-pin connector on the receiver, then reconnect it.
- 2. During the 1st 10-seconds after reconnecting the receiver, Press and hold the dash unlock switch for 5-seconds.

Release the dash switch when you observe the red LED start to flicker flash.

Note: **Both code enrollment options** 1 & 2 acheive the same results.

This means the receiver is in "learn" mode. The receiver will be in "learn" mode for 5-seconds.

- 3. When the receiver is in "learn" mode, press the button on the hand-held fob.
- 4. The red LED will double flash indicating the new fob has been enrolled.
- 5. Press the fob button once to test. If the green status LED turns on solid for 6-seconds, the fob has been enrolled successfully.

Code Enrollment Option 2

- 1. Open the receiver by removing the lid.
- 2. Identify the tact switch location on the PCB, small square component with a round button, which is near relays.
- 3. Press the tact switch once. The receiver will enter "learn" mode, indicatd by the red status LED flicker flashing.
- The receiver will remain in "learn" mode for 20-seconds.
- 4. Press the button on the new hand-held fob.
- 5. The red LED will double flash indicating the new fob has been enrolled.
- 6. Press the fob button once to test.

If the green status LED turns on solid for 6-seconds, the fob has been enrolled successfully.

Code Removal OR Code Erase

- 1. Place receiver into "learn" mode as indicated above in Code Enrollment Option 2.
- 2. BUT instead of releasing the tact switch button, continue to press and hold it for a full 10-seconds.
- 3. When all codes are erased, the red status LED will double flash and exit "learn" mode automatically.
- 5. All codes will be erased.

Trouble Shooting Guide - P1550 Series Remote Control

Sympton 1

No output from one or more outputs on receiver when transmitter buttons are pressed

Possible Cause

Corrective Actions

1.1

No signal from transmitter

1.2

One or more of the outputs have failed

1.1.1

Verify that transmitter is sending a signal and that transmitter is coded correctly. See Symptom 3.

1.2.1

Open receiver and observe yellow LEDs. The yellow output LED should turn ON as long as relay is ON.

1.2.2

1.3.1

Press each transmitter button in sequence. Using a volt meter, check each output. there should be a +12v present anytime the corresponding transmitter button is pressed. If no outputs, call factory for assistance.

1.3

Receiver outputs OK, but relays or equipment do not operate

1.4

Fuse is blown

1.5 Wire harness problem

1.4.1 Check the F2 fuse in fuse block. If it is blown, replace it.

Check wire and equipment for problem.

1.5.1

Check dash switch input wire connection on P1 green/yellow wire. If no voltage, correct wiring.

Sympton 2

Receiver is Dead. Does not operate, no green power LED.

Possible Cause

2.1

Logic ground or power connection to receiver has failed

2.2

Chassis ground connection has failed

Corrective Actions

2.1.1

Check logic ground and logic power +12v. Use a voltmeter probe when checking voltage.

2.1.2

If either ground or power is not present, locate failure in wire harness

2.2.1

Check chassis ground connection. It should be clean and tight, no paint on metal, an external tooth star washer should be present, no rust or dirt in connections.

2.2.2

2.3.1

Chassis ground should be located on vehicle frame or directly to battery.

2.3

Receiver and / or microprocessor has failed

Check heart beat LED. If it is not flashing the microprocessor has failed. Call factory for assistance (in either case).

2.3.2

Check yellow output LEDs. If they DO NOT flash each time corresponding channel is activated, the receiver has failed.

Sympton 3

Poor range 0' to 25' (pulsating 0' to 25')

Possible Cause

3.1

Antenna damaged or grounded

Corrective Actions

3.1.1

Check antenna placement. It should not be touching any metal or tinted glass.

3.1.2

It should not be closer than 6' to any motors or relays / contactors.

3.1.3 If antenna is cut or damaged, call factory for assistance.

Please Note: Antenna can NOT be shortened or altered in any way.

3.2.1

Remove any paint or residue from metal. Using an external tooth star washer, tighten chassis ground ring terminal securely to vehicle frame.

3.3.1

Replace battery if voltage is 2.8 volts or below. All transmitters use: Lithium Coin Style - # CR2032

3.4.1

Electromagnetic interference (EMI) can be generated by motors, welding equipment, relays, RF from other radio frequency devices, etc. which may be in close proximity to the receiver or transmitter.

3.4.2

Move closer to antenna or move vehicle out of range of EMI cause by high levels of RF from devices such as welding equipment, as this is a temporary problem.

3.4.3

If EMI is cause by relays, door motors or lift motors then the receiver must be moved or shielded or the EMI noise diverted to ground. Call factory for details / assistance.

3.5

Receiver component damaged or defective

3.6

Other equipment installed in vehicle causing voltage drop when initially turning on

3.6.1

3.5.1

Call factory for assistance.

Remove all other equipment from logic ground and power. Check range. If ok, move other antennas, route wires away from the receiver, move unit away from large motors or run logic power & ground directly from battery.

3.2 Poor ground connection

3.3 Transmitter battery low

3.4 Interference

Status & Diagnostic LEDs

Green LED

Power Reset

Both Red & Green LED ON for 10-seconds solid.

Quick Learn

Both Red & Green LEDs will turn OFF then Red LED will flicker flash for 5-seconds. If a new fob is enrolled, it will double flash and turn OFF.

Power

Green status LED flashes once every 5-seconds.

Curbside Door

Green status LED turns on solid for 6-seconds.

Bulkhead & Driver Door

Green status LED flashes once per second for the 10-second timer.

Red LED

Input signals

When any input signal is detected (from fob or switch), the red LED will remain ON solid as long as the signal is present.

Error Code for continuous inputs signal from A1 dash switch or RF fob.

- A1 dash switch single flash approximately once every 2 3 seconds.
- RF fob enrolled triple flash approximately once every 2 3 seconds.
- "Learn" Mode red LED flicker flashes in "learn" and double flashes when a new fob is enrolled or "learn" mode exits.



Limited One (1) Year Warranty

Section One

Seller will warrant any product originally manufactured or assembled and sold by seller for a period of up to TWO YEARS (24 months) from the original date of manufacture or ONEYEAR (12 months) from the original retail sale or O.E.M. in-service date.

The following are in lieu of all warranties; expressed; implied; or statutory, including but not limited to, any implied warranty of merchantability of fitness for a particular purpose and of any other warranty obligation on the part of seller. Seller, except as otherwise hereinafter provided, warrants the goods against faulty workmanship or defective materials for a period of up to TWO YEARs (24 months) from the original date of manufacture or ONE YEAR (12 months) from the original retail or O.E.M. in-service date.

Seller's sole and exclusive liability shall be (at seller's option) to repair; replace; or credit buyer for such goods which are returned by buyer during the applicable warranty period set forth above, provided that (I) seller is promptly notified in writing or by phone upon discovery by buyer that such goods failed to conform and an explanation of any alleged deficiencies, (II) such goods are returned to seller, (III) sellers examination of such goods shall disclose that such alleged deficiencies actually exist and were not caused by accident, misuse, neglect, alteration, improper installation, unauthorized repair or improper testing. If seller elects to repair or replace such goods, seller shall have a reasonable time to make such repairs or replace such goods.

Seller's warranties as herein above set forth shall not be enlarged, diminished, or affected by, and no obligation or liability shall arise or grow out of, sellers rendering of technical advice or service.

Damage to products caused by the customer or during installation cannot be claimed under this warranty. All devices returned that are not covered under the seller's warranty policy, will be charged a minimum of \$25.00 for evaluation plus additional charges for components and labor to repair the device not to exceed the original selling price. Seller considers the following to be typical examples of customer or installation damage: burned or broken traces on the printed circuit board, burned or damaged components, dirt or water residue on the printed circuit board or inside the case, modifications by the customer, broken cases or housings and dead batteries

Section Three

A return material authorization number (RMA) must be issued by seller before any product is returned for evaluation or repair. Warranty repairs must be completed at authorized repair facilities.

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FCC Compliance and Advisory Statement. This hardware device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

Canadian DOC Statement. This digital device does not exceed the Class B limits for radio noise emissions from digital apparatus specified in the interferencecausing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications.

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

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Déclaration du Ministère des Communications Canadien. Cet appareil numérique est conforme aux limitations concernant l'émission d'interférences radio par des appareils numériques de catégorie B, telles que stipulées dans le cadre de la norme Appareils numériques ICES-003 édictée par le Ministère canadien de l'industrie.

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